

SEQUENCE LISTING

<110> Harvell, Leslie T.
Ragghianti, James J

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<130> BB1470 US NA

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<150> 60/244,272

<151> 2000-10-30

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<210> 1

<211> 1493

<212> DNA

<213> Zea mays

<400> 1

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<210> 2

<211> 371

<212> PRT

<213> Zea mays

<400> 2

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Lys	Arg	Asp	Gln	Met	Ala	Pro	Leu	Gly	Asp	Gly	Gly	Ala	Ala	Ala	Ala	
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Ala	Ala	Ser	Asn	Asn	Leu	Val	Val	Ser	Phe	Gly	Glu	Met	Leu	Ile	Asp	
	50					55					60					
Phe	Val	Pro	Asp	Val	Ala	Gly	Leu	Ser	Leu	Ala	Glu	Ser	Gly	Gly	Phe	
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Val	Lys	Ala	Pro	Gly	Gly	Ala	Pro	Ala	Asn	Val	Ala	Cys	Ala	Ile	Ala	
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Lys	Leu	Gly	Gly	Ser	Ser	Ala	Phe	Val	Gly	Lys	Phe	Gly	Asp	Asp	Glu	
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Thr	Thr	Gly	Ala	Gly	Asp	Ala	Phe	Val	Gly	Ser	Leu	Leu	Val	Asn	Val	
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Ala	Lys	Asp	Asp	Ser	Ile	Phe	His	Asn	Glu	Glu	Lys	Leu	Arg	Glu	Ala	
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Leu Lys Phe Ser Asn Ala Cys Gly Ala Ile Cys Thr Thr Lys Lys Gly
 340 345 350

Ala Ile Pro Ala Leu Pro Thr Val Ala Thr Ala Gln Asp Leu Ile Ala
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Lys Ala Asn
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<210> 3
 <211> 430
 <212> DNA
 <213> Zea mays

<220>
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 <222> (293)
 <223> n = A, C, G or T

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 cggcgagcgc gagttcatgt tctaccgcaa cccagcgcgc gacatgctcc tcaactgccga 180
 cgagctcaac gtcggggtca tccggaggggc tgcgggtcttt cactacggat caataagctt 240
 gattgctgag ccttgccgga cagcacatct ccgtgccatg gaaattgcc aanaaggctgg 300
 tgcactgctc tcttacgacc caaacctgag ggaggcactt tggccatccc gtgaggaggc 360
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 cttgagtttt 430

<210> 4
 <211> 101
 <212> PRT
 <213> Zea mays

<220>
 <221> UNSURE
 <222> (72)
 <223> Xaa = ANY AMINO ACID

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 20 25 30
 Ala Asp Glu Leu Asn Val Gly Leu Ile Arg Arg Ala Ala Val Phe His
 35 40 45
 Tyr Gly Ser Ile Ser Leu Ile Ala Glu Pro Cys Arg Thr Ala His Leu
 50 55 60
 Arg Ala Met Glu Ile Ala Lys Xaa Ala Gly Ala Leu Leu Ser Tyr Asp
 65 70 75 80
 Pro Asn Leu Arg Glu Ala Leu Trp Pro Ser Arg Glu Glu Ala Arg Thr
 85 90 95

Gln Ile Leu Ser Ile
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<210> 5
<211> 1553
<212> DNA
<213> Oryza sativa

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<210> 6
<211> 368
<212> PRT
<213> Oryza sativa

<400> 6
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Leu Ser Leu Ser Asn Leu Asp Leu Ser Leu Ser Ser Pro Leu Val Phe
20 25 30
Ala Arg Ala Ser Arg Val Val Val Gly Gly Gly Ala Met Ala Gly
35 40 45
Arg Ser Glu Leu Val Val Ser Phe Gly Glu Met Leu Ile Asp Phe Val
50 55 60
Pro Thr Val Ala Gly Val Ser Leu Ala Glu Ala Pro Ala Phe Val Lys
65 70 75 80


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<400> 7
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<210> 8
<211> 354
<212> PRT
<213> Glycine max

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<400> 8
His Glu Arg Thr Ser Leu Ser Cys Arg Ser Lys Thr Val Phe Gln Asn
 1          5          10          15

Pro Asn Thr Leu Ser Leu Pro Met Ala Leu Asn Asn Gly Val Pro Ala
      20          25          30

Thr Gly Thr Gly Leu Ile Val Ser Phe Gly Glu Met Leu Ile Asp Phe
      35          40          45

Val Pro Thr Val Ser Gly Val Ser Leu Ala Glu Ala Pro Gly Phe Leu
      50          55          60

Lys Ala Pro Gly Gly Ala Pro Ala Asn Val Ala Ile Ala Val Ser Arg
      65          70          75          80

Leu Gly Gly Lys Ala Ala Phe Val Gly Lys Leu Gly Asp Asp Glu Phe
      85          90          95

Gly His Met Leu Ala Gly Ile Leu Lys Glu Asn Gly Val Arg Ala Asp
      100          105          110

Gly Ile Asn Phe Asp Gln Gly Ala Arg Thr Ala Leu Ala Phe Val Thr
      115          120          125

Leu Arg Ala Asp Gly Glu Arg Glu Phe Met Phe Tyr Arg Asn Pro Ser
      130          135          140

Ala Asp Met Leu Leu Lys Pro Glu Glu Leu Asn Leu Glu Leu Ile Arg
      145          150          155          160

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Ser Ala Lys Val Phe His Tyr Gly Ser Ile Ser Leu Ile Val Glu Pro
165 170 175

Cys Arg Ser Ala His Leu Lys Ala Met Glu Val Ala Lys Glu Ser Gly
180 185 190

Cys Leu Leu Ser Tyr Asp Pro Asn Leu Arg Leu Pro Leu Trp Pro Ser
195 200 205

Ala Glu Glu Ala Arg Lys Gln Ile Leu Ser Ile Trp Glu Lys Ala Asp
210 215 220

Leu Ile Lys Val Ser Asp Ala Glu Leu Glu Phe Leu Thr Gly Ser Asp
225 230 235 240

Lys Ile Asp Asp Glu Ser Ala Leu Ser Leu Trp His Pro Asn Leu Lys
245 250 255

Leu Leu Leu Val Thr Leu Gly Glu His Gly Ser Arg Tyr Tyr Thr Lys
260 265 270

Ser Phe Lys Gly Ser Val Asp Ala Phe His Val Asn Thr Val Asp Thr
275 280 285

Thr Gly Ala Gly Asp Ser Phe Val Gly Ala Leu Leu Ala Lys Ile Val
290 295 300

Asp Asp Gln Ser Ile Leu Glu Asp Glu Pro Arg Leu Arg Glu Val Leu
305 310 315 320

Lys Phe Ala Asn Ala Cys Gly Ala Ile Thr Thr Thr Gln Lys Gly Ala
325 330 335

Ile Pro Ala Leu Pro Lys Glu Glu Ala Ala Leu Lys Leu Ile Lys Gly
340 345 350

Gly Ser
354

<210> 9
<211> 1736
<212> DNA
<213> Glycine max

<400> 9
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aattctcagt cccaacattg ggtggagaag atgatgatga tgatgctcct tgtgcttctg 960
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<210> 10
 <211> 256
 <212> PRT
 <213> Glycine max

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<400> 10
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Gln Glu Lys Arg Gly Arg Ile Arg Ser Ile Leu Leu Gln Phe Lys Ser
          20          25          30

Asn Phe Gln Thr Met Ala Ser Ser Thr Asn Ala Leu Pro Pro Thr Gly
          35          40          45

Asn Gly Leu Ile Val Ser Phe Gly Glu Met Leu Ile Asp Phe Val Pro
          50          55          60

Thr Val Ser Gly Val Ser Leu Ala Glu Ala Pro Gly Phe Leu Lys Ala
 65          70          75          80

Pro Gly Gly Ala Pro Ala Asn Val Ala Ile Ala Val Ala Arg Leu Gly
          85          90          95

Gly Lys Ala Ala Phe Val Gly Lys Leu Gly Asp Asp Glu Phe Gly His
          100          105          110

Met Leu Ala Gly Ile Leu Lys Glu Asn Asp Val Arg Ser Asp Gly Ile
          115          120          125

Asn Phe Asp Gln Gly Ala Arg Thr Ala Leu Ala Phe Val Thr Leu Arg
          130          135          140

Ala Asp Gly Glu Arg Glu Phe Met Phe Tyr Arg Asn Pro Ser Ala Asp
          145          150          155          160

Met Leu Leu Thr Pro Glu Asp Leu Asn Leu Glu Leu Ile Arg Ser Ala
          165          170          175

Lys Val Phe His Tyr Gly Ser Ile Ser Leu Ile Val Glu Pro Cys Arg
          180          185          190

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Ser Ala His Leu Lys Ala Met Glu Val Ala Arg Glu Ala Gly Cys Leu
 195 200 205

Leu Ser Tyr Asp Pro Asn Leu Arg Leu Pro Leu Trp Pro Ser Ala Glu
 210 215 220

Glu Ala Arg Gln Gln Ile Leu Ser Ile Trp Asp Lys Ala Asp Val Ile
 225 230 235 240

Lys Val Ser Asp Val Glu Leu Glu Phe Leu Thr Gly Ser Asp Leu Val
 245 250 255

<210> 11
 <211> 1348
 <212> DNA
 <213> Triticum aestivum

<400> 11

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<210> 12
 <211> 337
 <212> PRT
 <213> Triticum aestivum

<400> 12

Met Ala Pro Leu Gly Asp Ala Val Ala Pro Ala Ala Ala Ala Ala
 1 5 10 15

Pro Gly Leu Val Val Ser Phe Gly Glu Met Leu Ile Asp Phe Val Pro
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Asp Val Ala Gly Val Ser Leu Ala Glu Ser Gly Gly Phe Val Lys Ala
 35 40 45

[illegible]

<210> 13
<211> 328

<212> PRT
 <213> Lycopersicon esculentum

<400> 13

Met	Ala	Val	Asn	Gly	Ala	Ser	Ser	Ser	Gly	Leu	Ile	Val	Ser	Phe	Gly	1	5	10	15
Glu	Met	Leu	Ile	Asp	Phe	Val	Pro	Thr	Val	Ser	Gly	Val	Ser	Leu	Ala	20	25	30	
Glu	Ala	Pro	Gly	Phe	Leu	Lys	Ala	Pro	Gly	Gly	Ala	Pro	Ala	Asn	Val	35	40	45	
Ala	Ile	Ala	Val	Thr	Arg	Leu	Gly	Gly	Lys	Ser	Ala	Phe	Val	Gly	Lys	50	55	60	
Leu	Gly	Asp	Asp	Glu	Phe	Gly	His	Met	Leu	Ala	Gly	Ile	Leu	Lys	Thr	65	70	75	80
Asn	Gly	Val	Gln	Ala	Glu	Gly	Ile	Asn	Phe	Asp	Lys	Gly	Ala	Arg	Thr	85	90	95	
Ala	Leu	Ala	Phe	Val	Thr	Leu	Arg	Ala	Asp	Gly	Glu	Arg	Glu	Phe	Met	100	105	110	
Phe	Tyr	Arg	Asn	Pro	Ser	Ala	Asp	Met	Leu	Leu	Thr	Pro	Ala	Glu	Leu	115	120	125	
Asn	Leu	Asp	Leu	Ile	Arg	Ser	Ala	Lys	Val	Phe	His	Tyr	Gly	Ser	Ile	130	135	140	
Ser	Leu	Ile	Val	Glu	Pro	Cys	Arg	Ala	Ala	His	Met	Lys	Ala	Met	Glu	145	150	155	160
Val	Ala	Lys	Glu	Ala	Gly	Ala	Leu	Leu	Ser	Tyr	Asp	Pro	Asn	Leu	Arg	165	170	175	
Leu	Pro	Leu	Trp	Pro	Ser	Ala	Glu	Glu	Ala	Lys	Lys	Gln	Ile	Lys	Ser	180	185	190	
Ile	Trp	Asp	Ser	Ala	Asp	Val	Ile	Lys	Val	Ser	Asp	Val	Glu	Leu	Glu	195	200	205	
Phe	Leu	Thr	Gly	Ser	Asn	Lys	Ile	Asp	Asp	Glu	Ser	Ala	Met	Ser	Leu	210	215	220	
Trp	His	Pro	Asn	Leu	Lys	Leu	Leu	Leu	Val	Thr	Leu	Gly	Glu	Lys	Gly	225	230	235	240
Cys	Asn	Tyr	Tyr	Thr	Lys	Lys	Phe	His	Gly	Thr	Val	Gly	Gly	Phe	His	245	250	255	
Val	Lys	Thr	Val	Asp	Thr	Thr	Gly	Ala	Gly	Asp	Ser	Phe	Val	Gly	Ala	260	265	270	
Leu	Leu	Thr	Lys	Ile	Val	Asp	Asp	Gln	Thr	Ile	Leu	Glu	Asp	Glu	Ala	275	280	285	
Arg	Leu	Lys	Glu	Val	Leu	Arg	Phe	Ser	Cys	Ala	Cys	Gly	Ala	Ile	Thr	290	295	300	

Thr	Thr	Lys	Lys	Gly	Ala	Ile	Pro	Ala	Leu	Pro	Thr	Ala	Ser	Glu	Ala
305					310					315					320

Leu	Thr	Leu	Leu	Lys	Gly	Gly	Ala
				325			

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